

US EPA RECORDS CENTER REGION 5



436709

**REMOVAL ACTION PLAN  
FOR  
REVERE COPPER AND BRASS  
DETROIT, MICHIGAN**

**Prepared For:**

**U.S. Environmental Protection Agency  
Region V  
230 South Dearborn Street  
Chicago, Illinois**

**CONTRACT NO. 68-01-7367**

**TAT-05-N-00066**

**TDD NO. 5-8709-08**

**Prepared By:**

**WESTON-SPER  
Technical Assistance Team  
Region V**

**March, 1988**

## TABLE OF CONTENTS

	<u>PAGE</u>
LIST OF FIGURES.....	iii
LIST OF TABLES.....	iv
1.0 INTRODUCTION.....	1
2.0 RECOMMENDATIONS.....	1
3.0 COSTS.....	6
4.0 COST SUMMARY.....	10

## LIST OF FIGURES

	<u>PAGE</u>
FIGURE 1 - SITE LOCATION MAP.....	2
FIGURE 2 - SITE LAYOUT MAP.....	3
FIGURE 3 - SAMPLE LOCATION MAP.....	4

LIST OF TABLES

	<u>PAGE</u>
TABLE 1 - ANALYTICAL RESULTS OF TAT SAMPLING.....	5

## 1.0 INTRODUCTION

The following Removal Action Plan (RAP) for the Revere Copper and Brass (RCB) site is an addendum to the site assessment report presented to U.S. Environmental Protection Agency (U.S. EPA) Deputy Project Officer Steve Faryan on January 21, 1988 (TDD# 5-8709-08).

The RCB site, an abandoned copper-bearing products manufacturer, is located at 5831 West Jefferson Avenue, approximately 1-1/4 miles southwest of the Ambassador Bridge in Wayne County, Detroit, Michigan (Figure 1 and 2). Elevated levels of polychlorinated biphenyls (PCBs) were suspected at the site due to RCB's salvaging operations.

During a site assessment by the TAT in September 1987, several equipment-mounting pits containing water and oil were identified inside the Revere building (Figure 3). Subsequent sampling by the TAT in November 1987, revealed PCBs in two of the six pits sampled (Table 1).

During this sampling effort, the TAT discovered a block of approximately 12 capacitors mounted in a pit. A punctured capacitor was also found on the floor above the pit. A sample of the soil beneath the punctured capacitor revealed an elevated level of PCBs (160,000 parts per million [ppm]).

This RAP addresses the removal and disposal of the capacitors and associated PCB-contaminated soil and debris.

## 2.0 RECOMMENDATIONS

The cleanup of the RCB site is estimated to take 5 days. The first day will include mobilization of personnel and equipment, and establishment of work zones. The second day will involve removing the capacitors and placing them into 55-gallon drums. These drums will be secured and properly labeled for transportation to a Toxic Substances Control Act (TSCA) approved incinerator. Contaminated soil and debris in the area of the punctured capacitor will also be placed in 55-gallon drums and transported off-site for incineration. Extent of contamination sampling of the floor should be conducted in the area of the punctured capacitor to insure a complete removal.

The third and fourth days of the cleanup will entail an investigation of the underground pits in the building to determine if additional capacitors exist. For the purposes of this RAP, cost estimates were based on the disposal of 15 capacitors. Increased costs will result if more capacitors are located at the site.

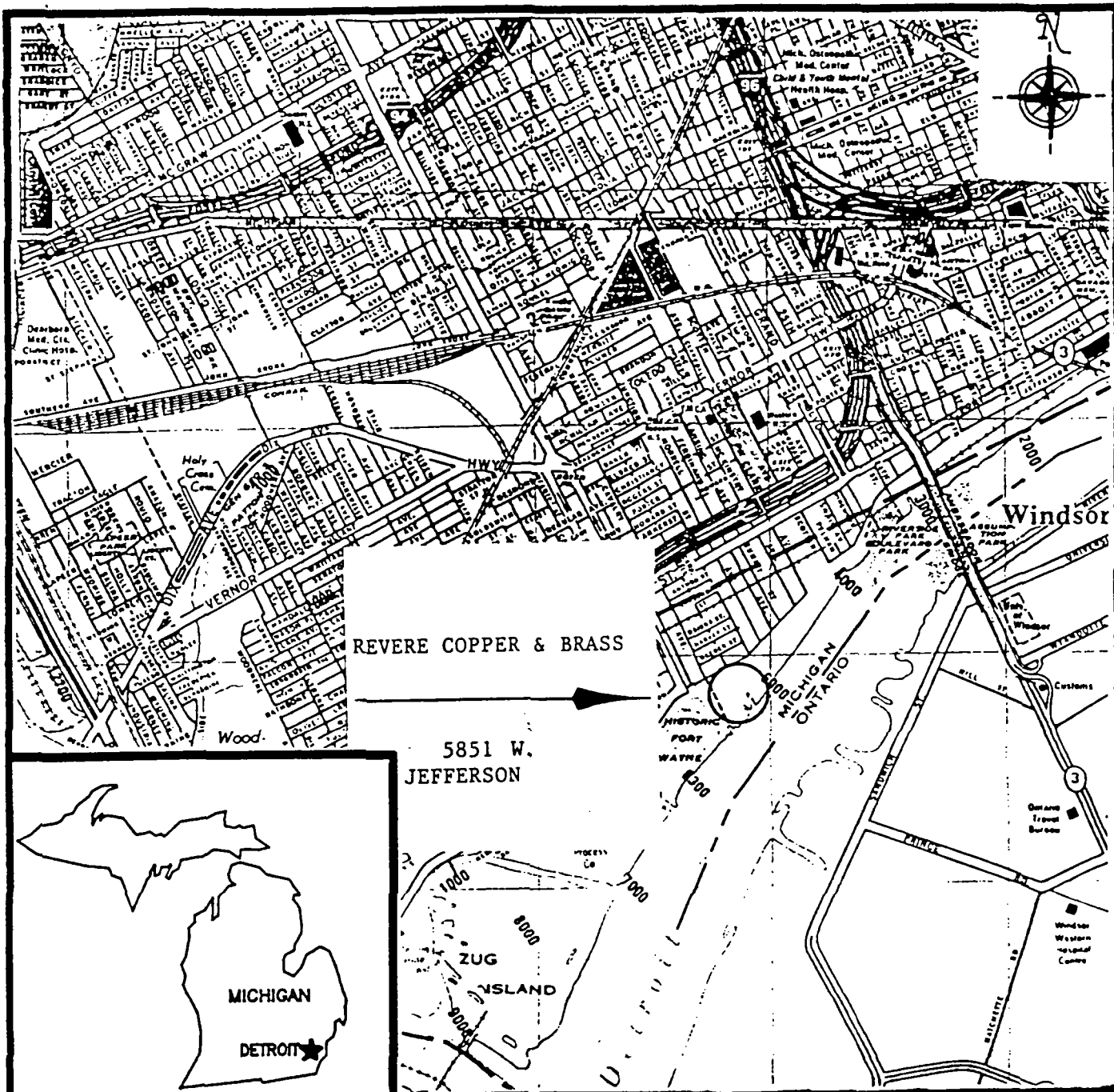


FIGURE 1  
SITE LOCATION MAP  
REVERE COPPER AND BRASS  
DETROIT, MICHIGAN

NOT TO SCALE

WESTON

DRAWN BY M. TURNBULL	DATE 11-17-87	PCS # 1339
APPROVED J. BINKLEY	DATE 1-18-88	TDD # 5-8709-08

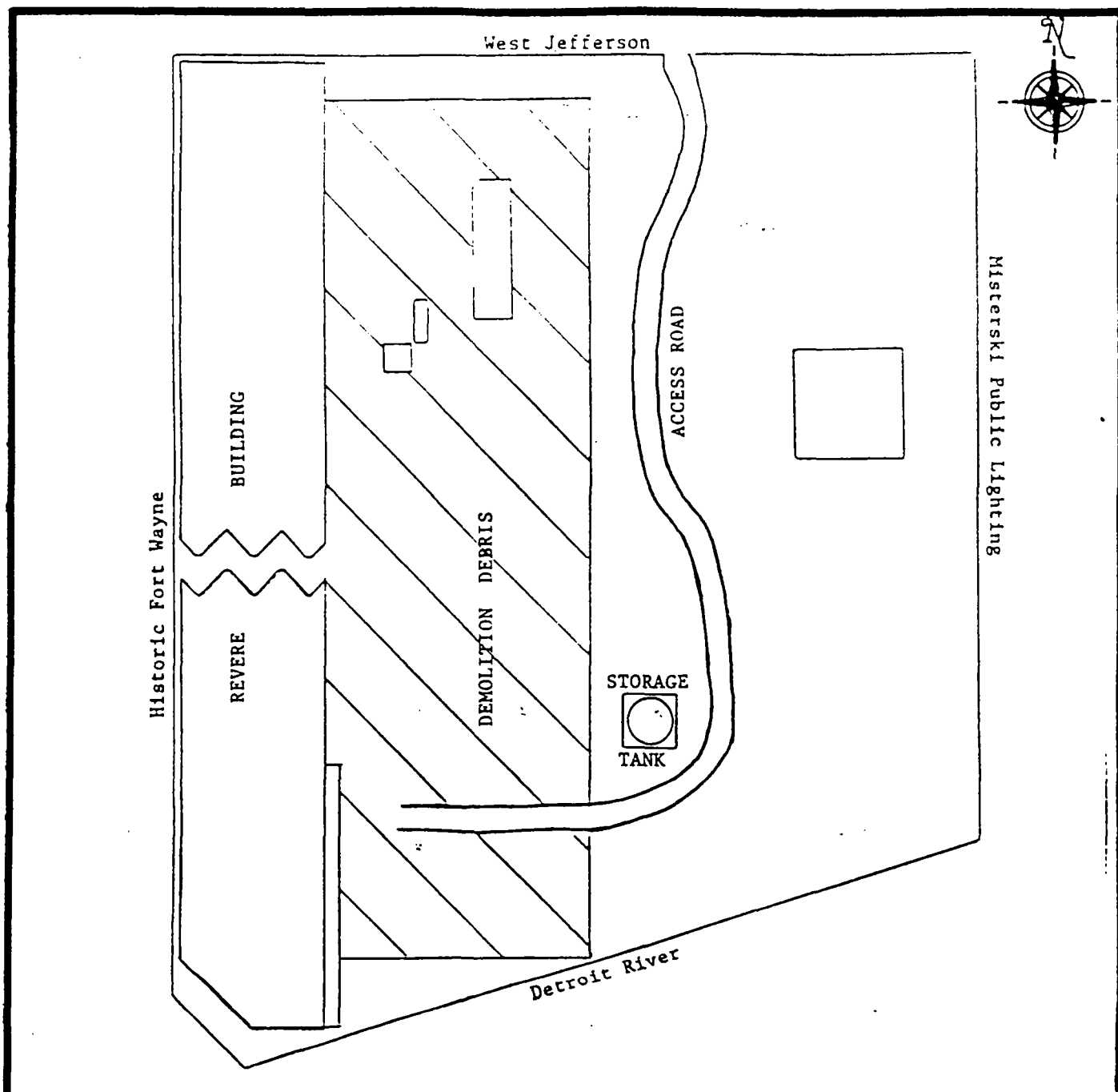


FIGURE 2  
SITE MAP  
REVERE COPPER AND BRASS  
DETROIT, MICHIGAN

NOT TO SCALE

WESTON

DRAWN BY M. TURNBULL	DATE 11-17-87	PCS # 1339
APPROVED J. BINKLEY	DATE 1-18-88	TDD # 5-8709-08

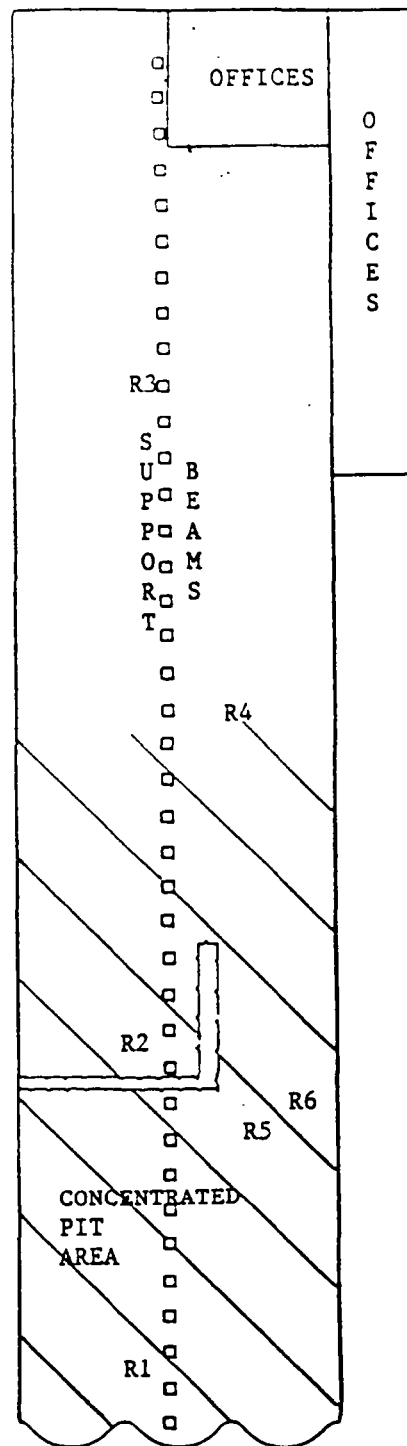
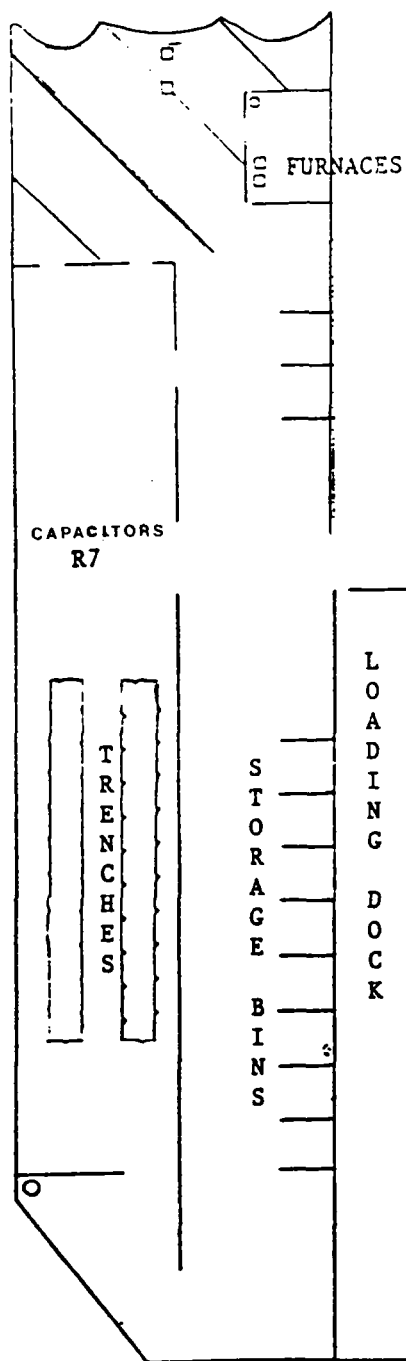


FIGURE 3  
 SAMPLING LOCATION MAP  
 REVERE COPPER AND BRASS  
 DETROIT, MICHIGAN  
 NOT TO SCALE

WESTON

DRAWN BY M. TURNBULL	DATE 11-17-87	PCS # 1339
APPROVED J. BINKLEY	DATE 1-18-88	TDD # 5-8709-08



**TABLE 1**  
**ANALYTICAL RESULTS OF TAT SAMPLING**  
**REVERE COPPER AND BRASS\***

November 5, 1987

Sample Location	Matrix	Contaminant	Concentration (ppm)
R1	Aqueous		<4.0
R2	Aqueous	Arochlor 1242	5.2
R3	Aqueous		<4.0
R4	Aqueous		<2.0
R5	Aqueous		<2.0
R6	Aqueous	Arochlor 1260	5.8
R7	Soil	Arochlor 1242	160,000

\*Samples Analyzed by Thermo Analytical, Inc.

The final day of the cleanup will involve demobilization of all equipment and personnel.

### 3.0 COSTS

Cost estimates are presented for the Emergency Response Cleanup Services (ERCS) contract, using the O.H. Materials Company's rates. Cost estimates are based on five 10-hour days.

The incineration disposal cost estimates are based on quotes from the Aptus Incinerator in Coffeyville, Kansas. The Aptus Incinerator is currently in compliance with the RCRA off-site policy. The disposal estimates include transportation costs. TAT and U.S. EPA costs are presented in the Cost Summary.

#### Personnel

<u>Item</u>	<u>Days</u>	<u>Amount</u>
1 Response Manager @ \$59.47/hr; \$59.47 hr OT	5	\$ 2,973.50
2 Cleanup Technicians @ \$29.19/hr; \$43.25/hr OT	5	3,200.20
1 Equipment Operator @ \$33.52/hr; \$49.74/hr OT	5	1,838.20
2 Truck Drivers @ \$33.52/hr x 8 hr/day	2	1,072.64
1 Field Clerk/Typist @ \$25.95/hr; \$38.92/hr OT	5	1,427.20
5 Per Diems @ \$75.00/day (includes hotel)	5	1,875.00
Subtotal		----- \$12,386.74

#### Equipment

<u>Item</u>	<u>Days</u>	<u>Amount</u>
1 Office Trailer (8' x 40') @ \$95.73/day	5	\$ 478.65
1 Decon Trailer @ \$70.41/day (Prov.)	5	352.05

Equipment (Continued)

<u>Item</u>	<u>Days</u>	<u>Amount</u>
1 Flatbed Trailer @ \$67.21/day	2	134.42
2 Road Tractors @ \$215.98/day (Prov.)	2	863.92
1 Pick-up Truck @ \$40.22/day (Prov.)	5	201.10
1 Truck Stakebed (1-ton) @ \$139.17/day	2	278.34
1 Front-end Loader (1.5-yd wheel) @ \$345.81/day (Prov.)	5	1,729.05
3 Emergency Lighting @ \$58.04/day	5	870.60
1 Steam Jenny @ \$65.56/day (Prov.)	5	327.80
1 Drum Grappler Attachment @ \$123.31/day (Prov.)	5	616.55
	Subtotal	----- \$ 5,852.48

Materials and Subcontracted Items

<u>Item</u>	<u>Days</u>	<u>Amount</u>
4 Personal Protective Equipment @ \$85.20/day/person	5	\$ 1,704.00
10 Rolls of Visqueen @ \$50.00/roll		500.00
50 Sample Jars @ \$2.00/jar		100.00
Gas for Passenger Vehicles @ 1.00/gal x 100 gal		100.00
Lumber		200.00
Bottled Water		18.00

Material and Subcontracted Items (Continued)

<u>Item</u>		<u>Amount</u>
Phone Installation		300.00
Telephone Bill		100.00
10 Security Signs @ \$50.00/ea		500.00
20 "Hazardous Waste - Keep Out" Signs @ \$10.00/ea		200.00
10 55-gallon Drums @ \$100.00/drum		1,000.00
Misc. Supplies		500.00
1 Passenger Van @ \$75.00/day	5	375.00
1 50-kw Generator @ \$300.00/wk		300.00
2 Port-a-Johns @ \$50.00/wk/ea		100.00
Site Security @ 8.50/hr x 12 hr/day	5	1,281.88
	Subtotal	----- \$ 7,788.87

Analytical

<u>Item</u>	<u>Days</u>	<u>Amount</u>
40 Samples for PCB Analysis @ \$110.00/sample		\$ 4,400.00
19.7% ODC		866.80
	Subtotal	----- \$ 5,266.80

Disposal

<u>Item</u>	<u>Days</u>	<u>Amount</u>
5 Drums of PCB Capacitors for Incineration (includes transportation) @ \$700.00/drum		\$ 3,500.00
1 Drum of PCB-Contaminated Soil, PPE, and Debris (includes transportation) @ \$700.00/drum		700.00
19.7% ODC		827.40
		-----
	Subtotal	\$ 5,027.40

#### 4.0 COST SUMMARY

##### Contractor Cost:

Personnel	\$12,386.74
Equipment	5,852.48
Materials & Subcontracted Items	7,788.87
Analytical	5,266.80
Disposal	5,027.40
20% Contingency	7,264.46
	-----

Subtotal	\$43,586.75
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TAT Costs (Field) @ \$65.00/hr x 60 hr	\$ 3,900.00
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TAT Costs (Office) @ \$45.00/hr x 40 hr	1,800.00
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Subtotal	\$49,286.75
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15% Contingency	7,393.01
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Extramural Total	\$56,679.76
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U.S. EPA Costs @ \$91.00/hr x 100 hr	9,100.00
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Intramural Total	9,100.00
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PROJECT TOTAL	\$65,779.76
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TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION  
EPA CONTRACT 68-01-7367

Mr. Steven J. Faryan  
Deputy Project Officer  
Emergency Response Section  
Western Response Unit  
U.S. Environmental Protection Agency  
11th Floor  
230 South Dearborn Street  
Chicago, Illinois 60604

March 21, 1988

TAT-05-G2-00343

Re: Revere Copper and Brass, Detroit, Michigan  
TDD# 5-8709-08

Dear Mr. Faryan:

The U.S. Environmental Protection Agency (U.S. EPA) tasked the Technical Assistance Team (TAT) to prepare a Removal Action Plan (RAP) as an addendum to the Revere Copper and Brass (RCB) site assessment report. A review of the site history, site status, and analytical results of samples collected by the TAT was presented in the site assessment report (TDD# 5-8709-08).

The attached RAP presents recommendations and estimated costs for the removal and disposal of PCB-contaminated capacitors, soil and debris identified at the RCB site. The removal action would require 5 days and cost an estimated \$66,000.00 (ERCS).

Should you have any questions or require additional information, please feel free to contact us.

Very truly yours,

ROY F. WESTON, INC.

*Daniel M. Capone sds*

Daniel M. Capone  
Environmental Scientist

*Scott D. Springer*

Scott D. Springer  
Technical Assistance Team  
Leader, Region V

DMC/ljs  
Attachment

Roy F. Weston, Inc.

SPILL PREVENTION & EMERGENCY RESPONSE DIVISION

In Association with ICF Technology Inc., C.C. Johnson & Malhotra, P.C., Resource Applications, Inc.,  
Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.